

Art Unit: 1746
Serial No.: 09/067,208
Page 2

IN THE CLAIMS:

Please cancel claims 1, 10, 12, 14-17 and 97 without prejudice or disclaimer as to the subject matter thereof.

1.-2. (canceled)

3. (currently amended) The electrode assembly of claim 106, wherein the anode current collector is formed from at least a one of: a titanium material, a nickel material, a copper material, an alloy of at least a one of the foregoing materials.

4. (currently amended) The electrode assembly of claim 106, further comprising a cathode current collector comprising a titanium element.

5. (currently amended) The electrode assembly of claim 105, further comprising a cathode member spaced from the anode with a separator material disposed therebetween, wherein said cathode member comprises of at least a one of: a solid reactive material, a binder material and a conductivity enhancer.

6. (previously presented) The electrode assembly of claim 5, wherein the solid reactive material comprises a silver vanadium oxide material.

7. (previously presented) The electrode assembly of claim 5, wherein the binder material further comprises a PTFE material.

8. (previously presented) The electrode assembly of claim 5, wherein the conductivity enhancer further comprises a conductive carbon.

9.-12. (canceled)

BEST AVAILABLE COPY

Art Unit: 1746
Serial No.: 09/067,208
Page 3

13. (previously presented) The electrode assembly of claim 342, wherein the anode current collector further comprises a perforated element.

14.-94. (canceled)

95. (currently amended) The coiled electrode assembly of claim 105, further comprising:

a first layer of separator material forming a pocket around the anode assembly formed by folding a separator material sheet over a top edge of the alkali metal, conforming the separator material sheet to the anode assembly, and joining the separator material sheet to itself with a seal at a bottom edge of the anode assembly; and wherein a second layer of separator material forms a pocket around a cathode member formed by a folded portion of a sheet of separator material, said folded portion conforming the sheet of separator material to the cathode member, and joining the sheet of separator material to itself with a seal at a bottom edge of the cathode member.

96. (currently amended) The electrode assembly of claim 105, wherein: the anode current collector extends through the end segment of the elongated strip of alkali metal corresponding to an end segment of the anode assembly that when wound into the coil disposes at least a portion of the anode current collector in the outermost layer of the coil and through at least one inner anode assembly layer of the coil not constituting the innermost layer.

97..-104. (canceled)

Art Unit: 1746
Serial No.: 09/067,208
Page 4

105. (currently amended) An assembly according to claim 104A coiled electrode assembly, comprising:

an elongated, relatively thin lithium anode member having a longitudinal anode length dimension; and
an electrically conductive metallic anode current collector coupled to said anode member, said current collector having a longitudinal current collector length dimension wherein said longitudinal current collector dimension is substantially less than the longitudinal anode length dimension, wherein said longitudinal current collector dimension comprises approximately one of about: 40%, 50%, 60%, 70% and 80% less than about half the longitudinal anode length dimension.

106. (currently amended) An assembly according to claim 104A coiled electrode assembly, comprising:

an elongated, relatively thin lithium anode member having a longitudinal anode length dimension; and
an electrically conductive metallic anode current collector coupled to said anode member, said current collector having a longitudinal current collector length dimension wherein said longitudinal current collector dimension is substantially less than the longitudinal anode length dimension, wherein said longitudinal current collector dimension comprises approximately less than about one-fourth one of about: 5%, 10%, 15%, 20%, and 30% the longitudinal anode length dimension.

107. (currently amended) An assembly according to claim 1054 or claim 106, wherein said anode member is disposed on the outer wrap or outer layer in a spirally wound electrochemical cell.

108. (currently amended) An assembly according to claim 1054, wherein said anode member includes a plurality of perforations over at least a portion of a major surface thereof.

Art Unit: 1746
Serial No.: 09/067,208
Page 5

109. (currently amended) An assembly according to claim 1045, further comprising at least one electrically conductive tab member coupled to a one of the anode member and the current collector.

110. (previously presented) An assembly according to claim 109, wherein said at least one electrically conductive tab member comprises two tabs and said two tabs are coupled to a common edge portion of the anode member or the current collector.

111. (previously presented) An assembly according to claim 109, wherein said at least one electrically conductive tab member comprises a longitudinal tab dimension comprises and said dimension is approximately equivalent to the longitudinal current collector dimension.

112. (previously presented) An assembly according to claim 108, wherein said plurality of perforations of said anode member comprises one of a metallic screen and a metallic grid.

113. (currently amended) An assembly according to claim 1054, wherein said current collector comprises a nickel material.

114. (currently amended) An assembly according to claim 1054, wherein said current collector comprises a titanium material.

115. (currently amended) An assembly according to claim 1054, wherein said current collector includes a height dimension and said height dimension is substantially less than a height dimension of said anode member.

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.